

# SEQUENCE LISTING

<110> Yutaka KANDA  
Mitsuo SATOH  
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taaagggtgc aacagaaaac ttggaaaaac aggttatat ccctcctaca aagtccgaga 960  
gaagatagaa acggtcaag 979

<210> 8  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 8  
aagtataagc ttacatggat gacgatatcg ctgcgctcgt 40

<210> 9  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 9  
atttaactgc aggaagcatt tgcggtggac gatggagggg 40

<210> 10  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 10  
atttaaggta ccgaagcatt tgcggtgcac gatggagggg 40

<210> 11  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 11  
ctccaattat gaatttatta gtg 23

<210> 12  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 12  
ggatgtttga agccaagctt cttgg 25

<210> 13  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 13  
gtccatggtg atcctgcagt gtgg 24

<210> 14  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 14  
caccaatgat atctccaggt tcc 23

<210> 15  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequense: Synthetic DNA

<400> 15  
gatatcgctg cgctcggtgt cgac

24

<210> 16  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 16  
caggaaggaa ggctggaaaa gagg

24

<210> 17  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 17  
gatatcgctg cgctcgctgt cgac

24

<210> 18  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 18  
caggaaggaa ggctggaaga gagg

24

<210> 19  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 19  
atgcgggcat ggactgggtc ctgg

24

<210> 20  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 20  
ctatttttca gcttcaggat atgtggg

27

<210> 21  
<211> 24  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 21

gtctgaagca ttatgtgttg aagc

24

<210> 22

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 22

gtgagtacat tcattgtact gtg

23

<210> 23

<211> 575

<212> PRT

<213> Cricetulus griseus

<400> 23

Met Arg Ala Trp Thr Gly Ser Trp Arg Trp Ile Met Leu Ile Leu Phe  
1 5 10 15

Ala Trp Gly Thr Leu Leu Phe Tyr Ile Gly Gly His Leu Val Arg Asp  
20 25 30

Asn Asp His Pro Asp His Ser Ser Arg Glu Leu Ser Lys Ile Leu Ala  
35 40 45

Lys Leu Glu Arg Leu Lys Gln Gln Asn Glu Asp Leu Arg Arg Met Ala  
50 55 60

Glu Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln Gly Thr Ala Thr  
65 70 75 80

Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys Ala Lys Glu Gln  
85 90 95

Ile Glu Asn Tyr Lys Lys Gln Ala Arg Asn Asp Leu Gly Lys Asp His  
100 105 110

Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys Glu Leu Trp Phe  
115 120 125

Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys Lys Leu Glu Gly Asn Glu  
130 135 140

Leu Gln Arg His Ala Asp Glu Ile Leu Leu Asp Leu Gly His His Glu  
145 150 155 160

Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln Thr Asp Gly Ala  
165 170 175

Gly Glu Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr Glu Leu Val Gln  
180 185 190

Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys Ser Lys Ala Arg  
195 200 205

Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr Gly Cys Gln Leu  
210 215 220

His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly Thr Gln Arg Thr  
 225 230 235 240  
 Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr Gly Gly Trp Glu  
 245 250 255  
 Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp Arg Ser Gly Leu  
 260 265 270  
 Ser Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys Asn Val Gln Val  
 275 280 285  
 Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg Pro Pro Tyr Leu  
 290 295 300  
 Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu Leu Arg Val His  
 305 310 315 320  
 Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile  
 325 330 335  
 Arg Pro Gln Pro Trp Leu Glu Arg Glu Ile Glu Glu Thr Thr Lys Lys  
 340 345 350  
 Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp  
 355 360 365  
 Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val  
 370 375 380  
 His Val Glu Glu His Phe Gln Leu Leu Glu Arg Arg Met Lys Val Asp  
 385 390 395 400  
 Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser Leu Leu Lys Glu  
 405 410 415  
 Ala Lys Thr Lys Tyr Ser Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile  
 420 425 430  
 Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg  
 435 440 445  
 Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val  
 450 455 460  
 Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln  
 465 470 475 480  
 Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile  
 485 490 495  
 Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Val Tyr Pro  
 500 505 510  
 His Gln Pro Arg Thr Lys Glu Glu Ile Pro Met Glu Pro Gly Asp Ile  
 515 520 525  
 Ile Gly Val Ala Gly Asn His Trp Asn Gly Tyr Ser Lys Gly Val Asn  
 530 535 540  
 Arg Lys Leu Gly Lys Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu  
 545 550 555 560  
 Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys  
 565 570 575

<210> 24  
 <211> 575  
 <212> PRT  
 <213> Mus musculus

<400> 24

Met Arg Ala Trp Thr Gly Ser Trp Arg Trp Ile Met Leu Ile Leu Phe  
 1 5 10 15  
 Ala Trp Gly Thr Leu Leu Phe Tyr Ile Gly Gly His Leu Val Arg Asp  
 20 25 30  
 Asn Asp His Pro Asp His Ser Ser Arg Glu Leu Ser Lys Ile Leu Ala  
 35 40 45  
 Lys Leu Glu Arg Leu Lys Gln Gln Asn Glu Asp Leu Arg Arg Met Ala  
 50 55 60  
 Glu Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln Gly Thr Ala Thr  
 65 70 75 80  
 Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys Ala Lys Glu Gln  
 85 90 95  
 Ile Glu Asn Tyr Lys Lys Gln Ala Arg Asn Gly Leu Gly Lys Asp His  
 100 105 110  
 Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys Glu Leu Trp Phe  
 115 120 125  
 Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys His Leu Glu Gly Asn Glu  
 130 135 140  
 Leu Gln Arg His Ala Asp Glu Ile Leu Leu Asp Leu Gly His His Glu  
 145 150 155 160  
 Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln Thr Asp Gly Ala  
 165 170 175  
 Gly Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr Glu Leu Val Gln  
 180 185 190  
 Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys Ser Lys Ala Arg  
 195 200 205  
 Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr Gly Cys Gln Leu  
 210 215 220  
 His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly Thr Gln Arg Thr  
 225 230 235 240  
 Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr Gly Gly Trp Glu  
 245 250 255  
 Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp Arg Ser Gly Leu  
 260 265 270  
 Ser Thr Gly His Trp Ser Gly Glu Val Asn Asp Lys Asn Ile Gln Val  
 275 280 285  
 Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg Pro Pro Tyr Leu  
 290 295 300  
 Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu Leu Arg Val His  
 305 310 315 320  
 Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile  
 325 330 335

Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu Ala Thr Lys Lys  
 340 345 350  
 Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp  
 355 360 365  
 Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val  
 370 375 380  
 His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg Met Gln Val Asp  
 385 390 395 400  
 Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Thr Leu Leu Lys Glu  
 405 410 415  
 Ala Lys Thr Lys Tyr Ser Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile  
 420 425 430  
 Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg  
 435 440 445  
 Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val  
 450 455 460  
 Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln  
 465 470 475 480  
 Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile  
 485 490 495  
 Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Val Tyr Pro  
 500 505 510  
 His Lys Pro Arg Thr Glu Glu Glu Ile Pro Met Glu Pro Gly Asp Ile  
 515 520 525  
 Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser Lys Gly Ile Asn  
 530 535 540  
 Arg Lys Leu Gly Lys Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu  
 545 550 555 560  
 Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys  
 565 570 575

<210> 25  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 25  
 Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys  
 1 5 10 15

Pro Cys

<210> 26  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA

<400> 26

cttgtgtgac tcttaactct cagag

25

<210> 27

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequense: Synthetic DNA

<400> 27

ccctcgagat aacttcgtat agc

23

<210> 28

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequense: Synthetic DNA

<400> 28

ggtaggcctc actaactg

18

<210> 29

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequense: Synthetic DNA

<400> 29

catagaaaca agtaacaaca gccag

25

<210> 30

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequense: Synthetic DNA

<400> 30

gagacttcag ccacttcaa ttattggc

28

<210> 31

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequense: Synthetic DNA

<400> 31

gaggccactt gtgtagcgcc aagtg

25

<210> 32

<211> 24

<212> DNA

<213> Artificial Sequence



<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 32  
aggaaggtgg cgctcatcac gggc 24

<210> 33  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 33  
taaggccaca agtcttaatt gcatcc 26

<210> 34  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 34  
caggggtgtt cccttgagga ggtggaa 27

<210> 35  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 35  
cccctcacgc atgaagcctg gag 23

<210> 36  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 36  
ggcaggagac caccttgcca gtgcccac 28

<210> 37  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 37  
ggcgctggct taccggaga ggaatggg 28

<210> 38

<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 38  
aaaaggcctc agttagtgaa ctgtatgg 28

<210> 39  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 39  
cgcggatcct caagcgttgg ggttggtcc 29

<210> 40  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 40  
cccaagcttg ccaccatggc tcacgctccc gctagctgcc cgagc 45

<210> 41  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 41  
ccggaattct gccaaagtatg agccatcctg g 31

<210> 42  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 42  
gccatccaga aggtggt 17

<210> 43  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 43

gtcttgtcag ggaagat

17

<210> 44

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 44

ggcaggagac caccttgcga gtgcccac

28

<210> 45

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 45

gggtgggctg taccttctgg aacagggc

28

<210> 46

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 46

ggcgctggct taccggaga ggaatggg

28

<210> 47

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 47

ggaatgggtg tttgtctctc caaagatgc

28

<210> 48

<211> 1316

<212> DNA

<213> Cricetulus griseus

<400> 48

gccccgcccc ctccacctgg accgagagta gctggagaat tgtgcaccgg aagtagctct 60  
tggaactgggtg gaaccctgcg caggtgcagc aacaatgggt gagccccagg gatccaggag 120  
gatacctagt acagggggct ctggactgggt gggcagagct atccagaagg tggtcgcaga 180  
tggcgtggc ttaccggag aggaatgggt gttgtctcc tccaaagatg cagatctgac 240  
ggatgcagca caaaccaag cctgttcca gaaggtacag cccacccatg tcatccatct 300  
tgctgcaatg gtaggaggcc tttccggaa tatcaaatac aacttgatt tctggaggaa 360

gaatgtgcac atcaatgaca acgtcctgca ctcagctttc gagtgaggca ctgcaaggt 420  
 ggtctcctgc ctgtccacct gtatcttccc tgacaagacc acctatccta ttgatgaaac 480  
 aatgatccac aatggtccac cccacagcag caattttggg tactcgtatg ccaagaggat 540  
 gattgacgtg cagaacaggg cctacttcca gcagcatggc tgcaccttca ctgctgtcat 600  
 ccctaccaat gtctttggac ctcatgacaa cttcaacatt gaagatggcc atgtgctgcc 660  
 tggcctcacc cataaggtgc atctggccaa gagnaattgt tcagccttga ctgtttgggg 720  
 tacagggaaa ccacggaggc agttcatcta ctcactggac ctagcccggc tcttcatctg 780  
 ggtcctgcgg gagtacaatg aagttgagcc catcatcctc tcagtgggag aggaagatga 840  
 agtctccatt aaggaggcag ctgaggctgt agtggaggcc atggacttct gtggggaagt 900  
 cacttttgat tcaacaaagt cagatgggca gtataagaag acagccagca atggcaagct 960  
 tcgggcctac ttgcctgatt tccgtttcac acccttcaag caggctgtga aggagacctg 1020  
 tgcttggttc accgacaact atgagcaggc ccggaagtga agcatgggac aagcgggtgc 1080  
 tcagctggca atgcccagtc agtaggctgc agtctcatca ttgtcttgc aagaactgag 1140  
 gacagtatcc agcaacctga gccacatgct ggtctctctg ccagggggct tcatgcagcc 1200  
 atccagtagg gcccatgttt gtccatcctc gggggaaggc cagaccaaca ccttgtttgt 1260  
 ctgcttctgc cccaacctca gtgcatccat gctggctctg ctgtcccttg tctaga 1316

<210> 49  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA

<400> 49  
 gatcctgctg ggacccaaat tgg 23

<210> 50  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA

<400> 50  
 cttacatcc caagggatgc tg 22

<210> 51  
 <211> 1965  
 <212> DNA  
 <213> Cricetulus griseus

<400> 51  
 acggggggct cccggaagcg gggaccatgg cgtctctgcg cgaagcgagc ctgcggaagc 60  
 tgcggcgctt ttccgagatg agaggcaaac ctgtggcaac tgggaaattc tgggatgtag 120

ttgtaataac agcagctgac gaaaagcagg agcttgctta caagcaacag ttgtcggaga 180  
 agctgaagag aaaggaattg ccccttgagg ttaactacca tgttttcact gatcctcctg 240  
 gaacccaaat tggaaatgga ggatcaacac tttgttctct tcagtgcctg gaaagcctct 300  
 atggagacaa gtggaattcc ttcacagtc tgtaattca ctctggtggc tacagtcaac 360  
 gacttcccaa tgcaagcgt ttaggaaaaa tcttcacggc tttaccactt ggtgagccca 420  
 tttatcagat gttggactta aaactagcca tgtacatgga tttcccctca cgcatagaagc 480  
 ctggagtttt ggtcacctgt gcagatgata ttgaactata cagcattggg gactctgagt 540  
 ccattgcatt tgagcagcct ggctttactg ccctagccca tccatctagt ctggctgtag 600  
 gcaccacaca tggagtatit gtattggact ctgccggttc ttgcaacat ggtgacctag 660  
 agtacaggca atgccacgt ttcctccata agcccagcat tgaaaacatg caccacttta 720  
 atgccgtgca tagactagga agctttggtc aacaggactt gagggggggt gacaccacct 780  
 gtcattcatt gcaactctgag tatgtctaca cagatagcct attttacctg gatcataaat 840  
 cagccaaaaa gctacttgat ttctatgaaa gtgtaggccc actgaactgt gaaatagatg 900  
 cctatggtga ctttctgcag gcactgggac ctggagcaac tgcagagtac accaagaaca 960  
 cctcacacgt cactaaagag gaatcacact tgttgacat gaggcagaaa atattccacc 1020  
 tctcaaggg aacacccctg aatgttgttg tccttaataa ctccaggtt tatcacattg 1080  
 gaacaacgga ggagtatctg ctacatttca ctccaatgg ttcgttacag gcagagctgg 1140  
 gcttgcaatc catagcttct agtgtcttct caaatgtgcc tgaagactcc catgagaaac 1200  
 cctgtgtcat tcacagcctc ctgaattcag gatgctgtgt ggcccctggc tcagtggtag 1260  
 aatattccag attaggacct gaggtgtcca tctcgaaaaa ctgcattatc agcgttctg 1320  
 tcatagaaaa agctgttctg ccccatgtt ctttctgtg ctctttaagt gtggagataa 1380  
 atggacactt agaattatca actatggtgt ttggcatgga agacaacttg aagaacagt 1440  
 ttaaaacat atcagatata aagatgctt agttctttgg agtcgtttc ctgacttgtt 1500  
 tagatatttg gaaccttaaa gctatggaag aactatttct aggaagtaag acgcagctga 1560  
 gcctgtggac tgctcgaatt ttccctgtct gttcttctct gaggtagtcg gttgcagcat 1620  
 ccttgggat gttaaagcc attcgaaacc attgccatt cagcctgagc aacttcaagc 1680  
 tgctgtccat ccaggaaatg cttctctgca aagatgtagg agacatgctt gcttacaggg 1740  
 agcaactctt tctagaaatc agttcaaaga gaaaacagtc tgattcggag aaatcttaaa 1800  
 tacaatggat ttgctctgga aacaggattg caaatgcagg catattctat agatctctgg 1860  
 gttcttctt ctttctcccc tctctctt ctttccctt tgatgtaatg acaaaggtaa 1920  
 aaatggccac ttctgatgga aaaaaaaaaa aaaaaaaaaa aaaaa 1965

<210> 52  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 52  
 caggggtgtt cccttgagga ggtggaa 27  
  
 <210> 53  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 53  
 cactgagcca ggggccacac agcatcc 27  
  
 <210> 54  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 54  
 cccctcacgc atgaagcctg gag 23  
  
 <210> 55  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 55  
 tgccaccgtt tcctccataa gcccagc 27  
  
 <210> 56  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 56  
 atggctcaag ctcccgctaa gtgcccga 28  
  
 <210> 57  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
 <400> 57  
 tcaagcgttt gggttggtcc tcatgag 27  
  
 <210> 58

<211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 58  
 tccggggatg gcgagatggg caag 25  
  
 <210> 59  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 59  
 cttgacatgg ctctgggctc caag 24  
  
 <210> 60  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 60  
 ccacttcagt cggtcggtag tattt 25  
  
 <210> 61  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 61  
 cgctcaccg cctgaggcga catg 24  
  
 <210> 62  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 62  
 ggcaggtgct gtcggtgagg tcaccatagt gc 32  
  
 <210> 63  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA  
  
 <400> 63

ggggccatgc caaggactat gtcg

24

<210> 64

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 64

atgtggctga tgttacaaaa tgatg

25

<210> 65

<211> 1504

<212> DNA

<213> Cricetulus griseus

<220>

<221> CDS

<222> (1)..(1119)

<400> 65

atg gct cac gct ccc gct agc tgc ccg agc tcc agg aac tct ggg gac 48  
Met Ala His Ala Pro Ala Ser Cys Pro Ser Ser Arg Asn Ser Gly Asp  
1 5 10 15

ggc gat aag ggc aag ccc agg aag gtg gcg ctc atc acg ggc atc acc 96  
Gly Asp Lys Gly Lys Pro Arg Lys Val Ala Leu Ile Thr Gly Ile Thr  
20 25 30

ggc cag gat ggc tca tac ttg gca gaa ttc ctg ctg gag aaa gga tac 144  
Gly Gln Asp Gly Ser Tyr Leu Ala Glu Phe Leu Leu Glu Lys Gly Tyr  
35 40 45

gag gtt cat gga att gta cgg cga tcc agt tca ttt aat aca ggt cga 192  
Glu Val His Gly Ile Val Arg Arg Ser Ser Ser Phe Asn Thr Gly Arg  
50 55 60

att gaa cat tta tat aag aat cca cag gct cat att gaa gga aac atg 240  
Ile Glu His Leu Tyr Lys Asn Pro Gln Ala His Ile Glu Gly Asn Met  
65 70 75 80

aag ttg cac tat ggt gac ctc acc gac agc acc tgc cta gta aaa atc 288  
Lys Leu His Tyr Gly Asp Leu Thr Asp Ser Thr Cys Leu Val Lys Ile  
85 90 95 100

atc aat gaa gtc aaa cct aca gag atc tac aat ctt ggt gcc cag agc 336  
Ile Asn Glu Val Lys Pro Thr Glu Ile Tyr Asn Leu Gly Ala Gln Ser  
105 110 115

cat gtc aag att tcc ttt gac tta gca gag tac act gca gat gtt gat 384  
His Val Lys Ile Ser Phe Asp Leu Ala Glu Tyr Thr Ala Asp Val Asp  
120 125 130

gga gtt ggc acc ttg cgg ctt ctg gat gca att aag act tgt ggc ctt 432  
Gly Val Gly Thr Leu Arg Leu Leu Asp Ala Ile Lys Thr Cys Gly Leu  
135 140 145

ata aat tct gtg aag ttc tac cag gcc tca act agt gaa ctg tat gga 480  
Ile Asn Ser Val Lys Phe Tyr Gln Ala Ser Thr Ser Glu Leu Tyr Gly  
150 155 160

aaa gtg caa gaa ata ccc cag aaa gag acc acc cct ttc tat cca agg 528  
Lys Val Gln Glu Ile Pro Gln Lys Glu Thr Thr Pro Phe Tyr Pro Arg  
165 170 175 180



tcg ccc tat gga gca gcc aaa ctt tat gcc tat tgg att gta gtg aac	576
Ser Pro Tyr Gly Ala Ala Lys Leu Tyr Ala Tyr Trp Ile Val Val Asn	
185 190 195	
ttt cga gag gct tat aat ctc ttt gcg gtg aac ggc att ctc ttc aat	624
Phe Arg Glu Ala Tyr Asn Leu Phe Ala Val Asn Gly Ile Leu Phe Asn	
200 205 210	
cat gag agt cct aga aga gga gct aat ttt gtt act cga aaa att agc	672
His Glu Ser Pro Arg Arg Gly Ala Asn Phe Val Thr Arg Lys Ile Ser	
215 220 225	
cgg tca gta gct aag att tac ctt gga caa ctg gaa tgt ttc agt ttg	720
Arg Ser Val Ala Lys Ile Tyr Leu Gly Gln Leu Glu Cys Phe Ser Leu	
230 235 240	
gga aat ctg gac gcc aaa cga gac tgg ggc cat gcc aag gac tat gtc	768
Gly Asn Leu Asp Ala Lys Arg Asp Trp Gly His Ala Lys Asp Tyr Val	
245 250 255 260	
gag gct atg tgg ctg atg tta caa aat gat gaa cca gag gac ttt gtc	816
Glu Ala Met Trp Leu Met Leu Gln Asn Asp Glu Pro Glu Asp Phe Val	
265 270 275	
ata gct act ggg gaa gtt cat agt gtc cgt gaa ttt gtt gag aaa tca	864
Ile Ala Thr Gly Glu Val His Ser Val Arg Glu Phe Val Glu Lys Ser	
280 285 290	
ttc atg cac att gga aag acc att gtg tgg gaa gga aag aat gaa aat	912
Phe Met His Ile Gly Lys Thr Ile Val Trp Glu Gly Lys Asn Glu Asn	
295 300 305	
gaa gtg ggc aga tgt aaa gag acc ggc aaa att cat gtg act gtg gat	960
Glu Val Gly Arg Cys Lys Glu Thr Gly Lys Ile His Val Thr Val Asp	
310 315 320	
ctg aaa tac tac cga cca act gaa gtg gac ttc ctg cag gga gac tgc	1008
Leu Lys Tyr Tyr Arg Pro Thr Glu Val Asp Phe Leu Gln Gly Asp Cys	
325 330 335 340	
tcc aag gcg cag cag aaa ctg aac tgg aag ccc cgc gtt gcc ttt gac	1056
Ser Lys Ala Gln Gln Lys Leu Asn Trp Lys Pro Arg Val Ala Phe Asp	
345 350 355	
gag ctg gtg agg gag atg gtg caa gcc gat gtg gag ctc atg aga acc	1104
Glu Leu Val Arg Glu Met Val Gln Ala Asp Val Glu Leu Met Arg Thr	
360 365 370	
aac ccc aac gcc tga gcacctctac aaaaaaattc gcgagacatg gactatggtg	1159
Asn Pro Asn Ala	
375	
cagagccagc caaccagagt ccagccactc ctgagaccat cgaccataaa ccctcgactg	1219
cctgtgtcgt cccacagct aagagctggg ccacaggttt gtgggcacca ggacggggac	1279
actccagagc taaggccact tcgcttttgt caaaggctcc totcaatgat tttgggaaat	1339
caagaagtgtt aaatcacat actcatttta cttgaaatta tgtcactaga caacttaaat	1399
ttttgagtct tgagattgtt tttctctttt cttattaaat gatctttcta tgaccagca	1459
aaaaaaaaa aaaaaaggga tataaaaaaa aaaaaaaaaa aaaaa	1504

<210> 66

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 66  
atgaagttgc actatgggtga cctca 25

<210> 67  
<211> 59  
<212> DNA  
<213> Cricetulus griseus

<400> 67  
ccgacagcac ctgcctagta aaaatcatca atgaagtcaa acctacagag atctacaat 59

<210> 68  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 68  
gacttagcag agtacactgc agatg 25

<210> 69  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 69  
accttgata gaaaggggtg gtctc 25

<210> 70  
<211> 125  
<212> DNA  
<213> Cricetulus griseus

<400> 70  
ttgatggagt tggcaccttg cggcttctgg atgcaattaa gacttgtggc cttataaatt 60  
ctgtgaagtt ctaccaggcc tcaactagtg aactgtatgg aaaagtgcaa gaaataccccc 120  
agaaa 125

<210> 71  
<211> 376  
<212> PRT  
<213> Cricetulus griseus

<400> 71  
Met Ala His Ala Pro Ala Ser Cys Pro Ser Ser Arg Asn Ser Gly Asp  
1 5 10 15  
Gly Asp Lys Gly Lys Pro Arg Lys Val Ala Leu Ile Thr Gly Ile Thr  
20 25 30  
Gly Gln Asp Gly Ser Tyr Leu Ala Glu Phe Leu Leu Glu Lys Gly Tyr  
35 40 45  
Glu Val His Gly Ile Val Arg Arg Ser Ser Ser Phe Asn Thr Gly Arg  
50 55 60  
Ile Glu His Leu Tyr Lys Asn Pro Gln Ala His Ile Glu Gly Asn Met

65	70	75	80
Lys 85	Leu His Tyr Gly Asp 90	Leu Thr Asp Ser Thr 95	Cys Leu Val Lys Ile 100
Ile Asn Glu Val 105	Lys Pro Thr Glu Ile 110	Tyr Asn Leu Gly Ala Gln Ser 115	
His Val Lys 120	Ile Ser Phe Asp Leu Ala 125	Glu Tyr Thr Ala Asp Val Asp 130	
Gly Val Gly 135	Thr Leu Arg Leu Leu Asp Ala Ile Lys Thr 145	Cys Gly Leu	
Ile Asn Ser Val Lys Phe 150	Tyr Gln Ala Ser Thr Ser 160	Glu Leu Tyr Gly	
Lys Val Gln Glu Ile 165	Pro Gln Lys Glu Thr Thr 175	Pro Phe Tyr Pro Arg 180	
Ser Pro Tyr Gly 185	Ala Lys Leu Tyr Ala Tyr Trp Ile Val Val Asn 195		
Phe Arg Glu Ala 200	Tyr Asn Leu Phe Ala Val Asn Gly Ile Leu Phe Asn 210		
His Glu Ser 215	Pro Arg Arg Gly Ala Asn Phe Val Thr Arg Lys Ile Ser 225		
Arg Ser Val Ala Lys Ile 230	Tyr Leu Gly Gln Leu Glu Cys Phe Ser Leu 240		
Gly Asn Leu Asp Ala Lys Arg Asp Trp Gly 245	His Ala Lys Asp Tyr Val 255		
Glu Ala Met Trp 265	Leu Met Leu Gln Asn Asp Glu Pro Glu Asp Phe Val 275		
Ile Ala Thr 280	Gly Glu Val His Ser Val Arg Glu Phe Val Glu Lys Ser 290		
Phe Met His 295	Ile Gly Lys Thr Ile Val Trp Glu Gly Lys Asn Glu Asn 305		
Glu Val Gly Arg Cys Lys 310	Glu Thr Gly Lys Ile His Val Thr Val Asp 320		
Leu Lys Tyr Tyr Arg 325	Pro Thr Glu Val Asp Phe Leu Gln Gly Asp Cys 335		
Ser Lys Ala Gln 345	Gln Lys Leu Asn Trp Lys Pro Arg Val Ala Phe Asp 355		
Glu Leu Val Arg 360	Glu Met Val Gln Ala Asp Val Glu Leu Met Arg Thr 370		
Asn Pro Asn Ala 375			

<210> 72  
 <211> 321  
 <212> PRT  
 <213> Cricetulus griseus

<400> 72  
 Met Gly Glu Pro Gln Gly Ser Arg Arg Ile Leu Val Thr Gly Gly Ser  
 1 5 10 15

Gly Leu Val Gly Arg Ala Ile Gln Lys Val Val Ala Asp Gly Ala Gly  
                   20                                  25                                  30  
 Leu Pro Gly Glu Glu Trp Val Phe Val Ser Ser Lys Asp Ala Asp Leu  
                   35                                  40                                  45  
 Thr Asp Ala Ala Gln Thr Gln Ala Leu Phe Gln Lys Val Gln Pro Thr  
                   50                                  55                                  60  
 His Val Ile His Leu Ala Ala Met Val Gly Gly Leu Phe Arg Asn Ile  
                   65                                  70                                  75                                  80  
 Lys Tyr Asn Leu Asp Phe Trp Arg Lys Asn Val His Ile Asn Asp Asn  
                                   85                                  90                                  95  
 Val Leu His Ser Ala Phe Glu Val Gly Thr Arg Lys Val Val Ser Cys  
                                   100                                  105                                  110  
 Leu Ser Thr Cys Ile Phe Pro Asp Lys Thr Thr Tyr Pro Ile Asp Glu  
                   115                                  120                                  125  
 Thr Met Ile His Asn Gly Pro Pro His Ser Ser Asn Phe Gly Tyr Ser  
                   130                                  135                                  140  
 Tyr Ala Lys Arg Met Ile Asp Val Gln Asn Arg Ala Tyr Phe Gln Gln  
                   145                                  150                                  155                                  160  
 His Gly Cys Thr Phe Thr Ala Val Ile Pro Thr Asn Val Phe Gly Pro  
                                   165                                  170                                  175  
 His Asp Asn Phe Asn Ile Glu Asp Gly His Val Leu Pro Gly Leu Ile  
                                   180                                  185                                  190  
 His Lys Val His Leu Ala Lys Ser Asn Gly Ser Ala Leu Thr Val Trp  
                                   195                                  200                                  205  
 Gly Thr Gly Lys Pro Arg Arg Gln Phe Ile Tyr Ser Leu Asp Leu Ala  
                   210                                  215                                  220  
 Arg Leu Phe Ile Trp Val Leu Arg Glu Tyr Asn Glu Val Glu Pro Ile  
                   225                                  230                                  235                                  240  
 Ile Leu Ser Val Gly Glu Glu Asp Glu Val Ser Ile Lys Glu Ala Ala  
                                   245                                  250                                  255  
 Glu Ala Val Val Glu Ala Met Asp Phe Cys Gly Glu Val Thr Phe Asp  
                                   260                                  265                                  270  
 Ser Thr Lys Ser Asp Gly Gln Tyr Lys Lys Thr Ala Ser Asn Gly Lys  
                   275                                  280                                  285  
 Leu Arg Ala Tyr Leu Pro Asp Phe Arg Phe Thr Pro Phe Lys Gln Ala  
                   290                                  295                                  300  
 Val Lys Glu Thr Cys Ala Trp Phe Thr Asp Asn Tyr Glu Gln Ala Arg  
                   305                                  310                                  315                                  320  
 Lys

<210> 73

<211> 590

<212> PRT

<213> Cricetulus griseus

<400> 73

Met Ala Ser Leu Arg Glu Ala Ser Leu Arg Lys Leu Arg Arg Phe Ser

1					5					10					15
Glu	Met	Arg	Gly	Lys	Pro	Val	Ala	Thr	Gly	Lys	Phe	Trp	Asp	Val	Val
			20					25					30		
Val	Ile	Thr	Ala	Ala	Asp	Glu	Lys	Gln	Glu	Leu	Ala	Tyr	Lys	Gln	Gln
		35					40					45			
Leu	Ser	Glu	Lys	Leu	Lys	Arg	Lys	Glu	Leu	Pro	Leu	Gly	Val	Asn	Tyr
	50					55					60				
His	Val	Phe	Thr	Asp	Pro	Pro	Gly	Thr	Lys	Ile	Gly	Asn	Gly	Gly	Ser
	65				70					75					80
Thr	Leu	Cys	Ser	Leu	Gln	Cys	Leu	Glu	Ser	Leu	Tyr	Gly	Asp	Lys	Trp
				85					90					95	
Asn	Ser	Phe	Thr	Val	Leu	Leu	Ile	His	Ser	Gly	Gly	Tyr	Ser	Gln	Arg
			100					105					110		
Leu	Pro	Asn	Ala	Ser	Ala	Leu	Gly	Lys	Ile	Phe	Thr	Ala	Leu	Pro	Leu
		115					120					125			
Gly	Glu	Pro	Ile	Tyr	Gln	Met	Leu	Asp	Leu	Lys	Leu	Ala	Met	Tyr	Met
	130					135					140				
Asp	Phe	Pro	Ser	Arg	Met	Lys	Pro	Gly	Val	Leu	Val	Thr	Cys	Ala	Asp
	145				150					155					160
Asp	Ile	Glu	Leu	Tyr	Ser	Ile	Gly	Asp	Ser	Glu	Ser	Ile	Ala	Phe	Glu
				165					170					175	
Gln	Pro	Gly	Phe	Thr	Ala	Leu	Ala	His	Pro	Ser	Ser	Leu	Ala	Val	Gly
			180					185					190		
Thr	Thr	His	Gly	Val	Phe	Val	Leu	Asp	Ser	Ala	Gly	Ser	Leu	Gln	His
		195					200					205			
Gly	Asp	Leu	Glu	Tyr	Arg	Gln	Cys	His	Arg	Phe	Leu	His	Lys	Pro	Ser
	210					215					220				
Ile	Glu	Asn	Met	His	His	Phe	Asn	Ala	Val	His	Arg	Leu	Gly	Ser	Phe
	225				230					235					240
Gly	Gln	Gln	Asp	Leu	Ser	Gly	Gly	Asp	Thr	Thr	Cys	His	Pro	Leu	His
				245					250					255	
Ser	Glu	Tyr	Val	Tyr	Thr	Asp	Ser	Leu	Phe	Tyr	Met	Asp	His	Lys	Ser
			260					265					270		
Ala	Lys	Lys	Leu	Leu	Asp	Phe	Tyr	Glu	Ser	Val	Gly	Pro	Leu	Asn	Cys
		275					280					285			
Glu	Ile	Asp	Ala	Tyr	Gly	Asp	Phe	Leu	Gln	Ala	Leu	Gly	Pro	Gly	Ala
	290					295					300				
Thr	Ala	Glu	Tyr	Thr	Lys	Asn	Thr	Ser	His	Val	Thr	Lys	Glu	Glu	Ser
	305				310					315					320
His	Leu	Leu	Asp	Met	Arg	Gln	Lys	Ile	Phe	His	Leu	Leu	Lys	Gly	Thr
				325					330					335	
Pro	Leu	Asn	Val	Val	Val	Leu	Asn	Asn	Ser	Arg	Phe	Tyr	His	Ile	Gly
			340					345					350		
Thr	Thr	Glu	Glu	Tyr	Leu	Leu	His	Phe	Thr	Ser	Asn	Gly	Ser	Leu	Gln
		355					360					365			

Ala Glu Leu Gly Leu Gln Ser Ile Ala Phe Ser Val Phe Pro Asn Val  
 370 375 380  
 Pro Glu Asp Ser His Glu Lys Pro Cys Val Ile His Ser Ile Leu Asn  
 385 390 395 400  
 Ser Gly Cys Cys Val Ala Pro Gly Ser Val Val Glu Tyr Ser Arg Leu  
 405 410 415  
 Gly Pro Glu Val Ser Ile Ser Glu Asn Cys Ile Ile Ser Gly Ser Val  
 420 425 430  
 Ile Glu Lys Ala Val Leu Pro Pro Cys Ser Phe Val Cys Ser Leu Ser  
 435 440 445  
 Val Glu Ile Asn Gly His Leu Glu Tyr Ser Thr Met Val Phe Gly Met  
 450 455 460  
 Glu Asp Asn Leu Lys Asn Ser Val Lys Thr Ile Ser Asp Ile Lys Met  
 465 470 475 480  
 Leu Gln Phe Phe Gly Val Cys Phe Leu Thr Cys Leu Asp Ile Trp Asn  
 485 490 495  
 Leu Lys Ala Met Glu Glu Leu Phe Ser Gly Ser Lys Thr Gln Leu Ser  
 500 505 510  
 Leu Trp Thr Ala Arg Ile Phe Pro Val Cys Ser Ser Leu Ser Glu Ser  
 515 520 525  
 Val Ala Ala Ser Leu Gly Met Leu Asn Ala Ile Arg Asn His Ser Pro  
 530 535 540  
 Phe Ser Leu Ser Asn Phe Lys Leu Leu Ser Ile Gln Glu Met Leu Leu  
 545 550 555 560  
 Cys Lys Asp Val Gly Asp Met Leu Ala Tyr Arg Glu Gln Leu Phe Leu  
 565 570 575  
 Glu Ile Ser Ser Lys Arg Lys Gln Ser Asp Ser Glu Lys Ser  
 580 585 590